The State of Utah

Department of Natural Resources

Division of Oil, Gas & Mining

ROBERT L. MORGAN
*Executive Director*

LOWELL P. BRAXTON
*Division Director*

OLENE S. WALKER
*Governor*

GAYLE F. McKEACHNIE
*Lieutenant Governor*

# Inspection Report

| Representatives Present During the Inspection: | |
|---|---|
| OGM | Priscilla Burton Environmental Scientist III |
| Company | Vicky S. Miller Environmental Specialist |

| | |
|---|---|
| Permit Number: | **C0070039** |
| Inspection Type: | TECHNICAL |
| Inspection Date: | Friday, April 01, 2005 |
| Start Date/Time: | 4/1/2005 9:30:00 AM |
| End Date/Time: | 4/1/2005 2:30:00 PM |
| Last Inspection: | Monday, March 21, 2005 |

Inspector: Priscilla Burton, Environmental Scientist III

Weather: sun 50's, melting snow…wet soil

InspectionID Report Number: 574

Accepted by: whedberg
5/5/2005

Permitee: **CANYON FUEL COMPANY LLC**
Operator: **CANYON FUEL COMPANY LLC**
Site: **DUGOUT CANYON MINE**
Address: **PO BOX 1029, WELLINGTON UT 84542**
County: **CARBON**
Permit Type: **PERMANENT COAL PROGRAM**
Permit Status: **ACTIVE**

**Current Acreages**

| | |
|---|---|
| 7,083.71 | **Total Permitted** |
| 51.11 | **Total Disturbed** |
| | **Phase I** |
| | **Phase II** |
| | **Phase III** |

**Mineral Ownership**

- [x] **Federal**
- [x] **State**
- [ ] **County**
- [x] **Fee**
- [ ] **Other**

**Types of Operations**

- [x] **Underground**
- [ ] **Surface**
- [ ] **Loadout**
- [ ] **Processing**
- [ ] **Reprocessing**

**Report summary and status for pending enforcement actions, permit conditions, Division Orders, and amendments:**

Evaluted four soil trenches at the proposed Pace Canyon fan portal site. Collected samples for analysis of baseline parameters from undisturbed soils and for acid/base potential analysis of coal waste. Undisturbed soils at the site could yield 36+ inches of soil from the combined A and B horizons.

**Inspector's Signature** /S/ **Date** Monday, April 04, 2005

Priscilla Burton, Environmental Scientist III
Inspector ID Number: 37

**Note:** This inspection report does not constitute an affidavit of compliance with the regulatory program of the Division of Oil, Gas and Mining.

***REVIEW OF PERMIT, PERFORMANCE STANDARDS PERMIT CONDITION REQUIREMENTS***

*1. Substantiate the elements on this inspection by checking the appropriate performance standard.*
*a. For COMPLETE inspections provide narrative justification for any elements not fully inspected unless element is not appropriate to the site, in which case check Not Applicable.*
*b. For PARTIAL inspections check only the elements evaluated.*
*2. Document any noncompliance situation by reference the NOV issued at the appropriate performance standard listed below.*
*3. Reference any narratives written in conjunction with this inspection at the appropriate performace standard listed below.*
*4. Provide a brief status report for all pending enforcement actions, permit conditions, Divison Orders, and amendments.*

| | Evaluated | Not Applicable | Comment | Enforcement |
|---|---|---|---|---|
| 1. Permits, Change, Transfer, Renewal, Sale | ☐ | ☐ | ☐ | ☐ |
| 2. Signs and Markers | ☐ | ☐ | ☐ | ☐ |
| 3. Topsoil | ☑ | ☐ | ☑ | ☐ |
| 4.a Hydrologic Balance: Diversions | ☐ | ☐ | ☐ | ☐ |
| 4.b Hydrologic Balance: Sediment Ponds and Impoundments | ☐ | ☐ | ☐ | ☐ |
| 4.c Hydrologic Balance: Other Sediment Control Measures | ☐ | ☐ | ☐ | ☐ |
| 4.d Hydrologic Balance: Water Monitoring | ☐ | ☐ | ☐ | ☐ |
| 4.e Hydrologic Balance: Effluent Limitations | ☐ | ☐ | ☐ | ☐ |
| 5. Explosives | ☐ | ☐ | ☐ | ☐ |
| 6. Disposal of Excess Spoil, Fills, Benches | ☐ | ☐ | ☐ | ☐ |
| 7. Coal Mine Waste, Refuse Piles, Impoundments | ☐ | ☐ | ☐ | ☐ |
| 8. Noncoal Waste | ☐ | ☐ | ☐ | ☐ |
| 9. Protection of Fish, Wildlife and Related Environmental Issues | ☐ | ☐ | ☑ | ☐ |
| 10. Slides and Other Damage | ☐ | ☐ | ☐ | ☐ |
| 11. Contemporaneous Reclamation | ☐ | ☐ | ☐ | ☐ |
| 12. Backfilling And Grading | ☐ | ☐ | ☐ | ☐ |
| 13. Revegetation | ☐ | ☐ | ☐ | ☐ |
| 14. Subsidence Control | ☐ | ☐ | ☐ | ☐ |
| 15. Cessation of Operations | ☐ | ☐ | ☐ | ☐ |
| 16.a Roads: Construction, Maintenance, Surfacing | ☐ | ☐ | ☐ | ☐ |
| 16.b Roads: Drainage Controls | ☐ | ☐ | ☐ | ☐ |
| 17. Other Transportation Facilities | ☐ | ☐ | ☐ | ☐ |
| 18. Support Facilities, Utility Installations | ☐ | ☐ | ☐ | ☐ |
| 19. AVS Check | ☐ | ☐ | ☐ | ☐ |
| 20. Air Quality Permit | ☐ | ☐ | ☐ | ☐ |
| 21. Bonding and Insurance | ☐ | ☐ | ☐ | ☐ |
| 22. Other | ☐ | ☐ | ☐ | ☐ |

## 3. Topsoil

The 1988 Order III Carbon County Soil Survey indicates map unit 96 (Rock Outcrop/Rubbleland/Travesilla) soil occupies the proposed fan portal site. Closer inspection indicates the soils are in the family of Cryoborolls that might be mapped as Senchert family or Croydon series soils.

Four trenches were dug by Delbert Thayn using Case 580 Super L Series 2 with a 0.25 cu yd bucket. Trench locations marked on soil survey map provided by Vicky Miller. Trenches on east side of existing road marked E-1, E-2. Trench on west side marked W-1. One trench in coal mine waste left unmarked, but waste sampled.

Trench E-1 located in a disturbed pad near drainage on north end of site, covered with 8 inches of snow. Profile of E-1: 0-3' disturbed soil mixed with coarse fragments, approximately 50% boulders, 20% cobbles, 10% gravels. 3 - 5' loose sand (buried C horizon).

Trench E-2 in native soils on west side of existing road, on level flood plain above creek. Maples, mahonia and sage vegetation covered with 8 inches of snow, so difficult to tell the extent of the surface litter layer. E-2 profile: A1 0 - 5 inches, friable, coarse granular, loose, many roots, high organic matter, moist color 10YR2/1. A2 5 - 17 inches, same as above, but less OM and moist color 10YR3/2/. B1 17 - 36 in. many roots, blocky, moist color 10YR4/3. C 36 - 48 in loose very fine granular sand with 10% gravels, moist color 10YR5/3. All horizons were sampled for lab analysis from Trench E2. Trench E2 represents the undisturbed soils east of the road.

W1 was located in undisturbed soil above existing road and below previous road disturbance. Snow absent from this location. Profile of W1: O horizon 0 - 3 in. organic material. A1 3 - 23 in loam, many roots, friable, granular, moist Color 10YR2/2. B1 20 - 39 in, sandy loam, some roots, loose granular moist color 10YR4/4. B2 39 - 54 in. sandy loam,some roots, firm,blocky, moist color 10YR4/4 (aside from the structure inB1, the B1 and B2 layers are the same). All horizons were sampled for lab analysis from Trench W1. This pit represents the undisturbed soils on lesser slopes next to the road.

A trench into the coal waste by the tipple on the east side of the road revealed the following: surface 0 - 27 inches coal (in places 36 inches), loose granular, 7 - 10% gravels, moist color 10YR2/1, dry color 10YR3/1. 27 - 35 inches, reddish oxidized sandy loam lens, moist color 5YR3/4. 35 - 48 inches, sand - buried C horizon. Coal waste and oxidized material sent for laboratory analysis.

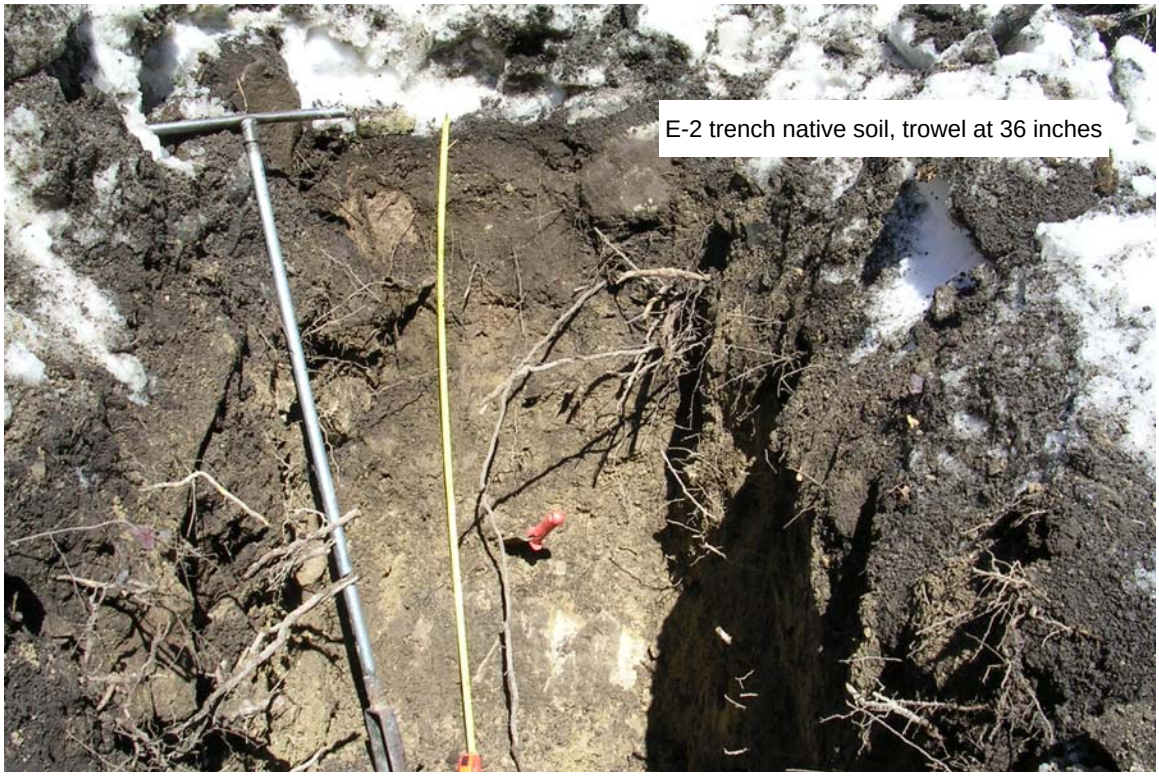
Coal waste of west side of road (loose granular, 7 - 10% gravels, color 2.5YR2/0) also sampled for laboratory analysis.

See attached photos.

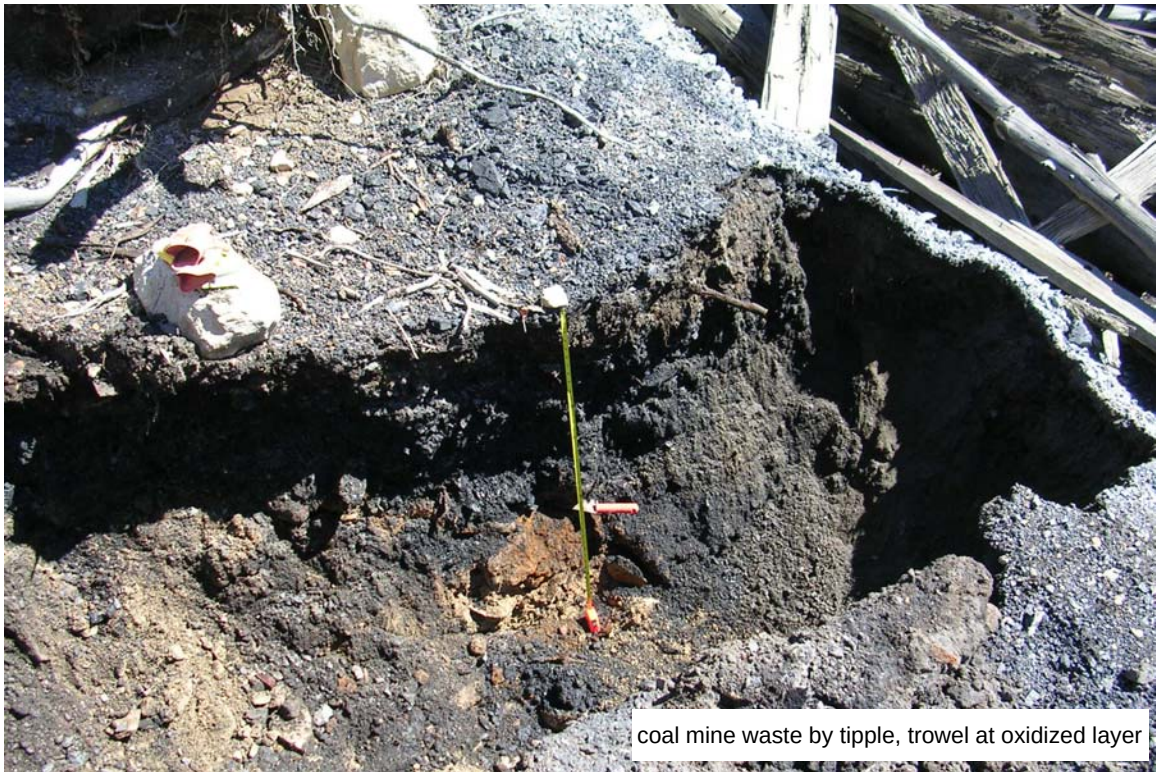
## 9. Protection of Fish, Wildlife and Related Environmental Issues

Leroy Mead was also present to evaluate the site.

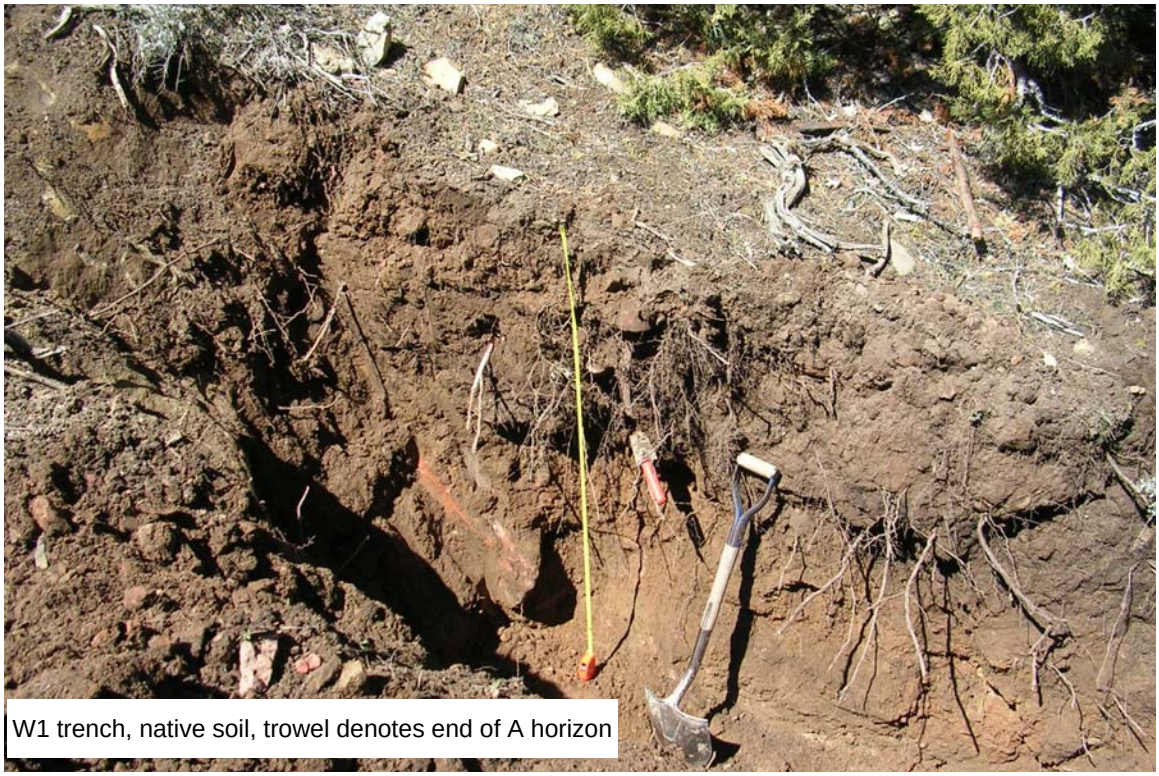
E-1 trench, disturbed ground



E-2 trench native soil, trowel at 36 inches



coal mine waste by tipple, trowel at oxidized layer



W1 trench, native soil, trowel denotes end of A horizon